

In the Matter of	)
DECT Forum Petition to Modify the	) ) RM 11485
Service Rules for the UPCS Band	)
1920-1930 MHz	)
	)

Comments Supporting

the

Petition for Rulemaking

Modifying Certain Rules in FCC Part 15

Governing the UPCS Band

Our company has strong concerns about the potential for interference from the 1915-1920 MHz portion of the H Block to the UPCS frequency band, 1920-1930 MHz. The DECT Forum Petition proposed modifications to the rules which improve the utility of the band and prepare it for wider bandwidth, higher data payload devices which will be introduced in the near future.

Due to the fact that we are member of UTAM and paying fees for the UPCS products as well as having spent great efforts in engineering UPCS devices we see a great negative influence on this business. Customers of UPCS devices may get dissatisfied by their devices.

We have an urgent interested in a quick resolve of this issue because the longer this petition is delayed the more devices will be in the field that cannot be protected from out of band emissions from the H Block, when those devices start to come into use. Alternately the sooner this petition is acted on the sooner devices will be sold with the threshold removed or raised and therefore the negative impact of H Block devices will be much less.

Andreas Latzel, Anthony Shen Steuernummer: 29/230/00532

**AASTRA** DeTeWe

problem

The primary problem is that the out-of-band emission limits will interact with the

listen-before-talk rules of the UPCS band in a way that could deny use of large portions or

even the entire UPCS band when a device operating in the H Block, 1915-1920 MHz, is

nearby. Devices in the UPCS band are required to implement a spectrum etiquette based

on a listen-before-talk protocol. UPCS devices must monitor and identify a usable channel

before they can transmit. These devices can use any channel they locate with a power level

of less than 30 dB above thermal noise, TN + 30 dB. Additionally, if certain conditions are

met, UPCS devices can operate on a least-interfered-channel basis and use channels with

power levels of up to 50 dB above thermal noise, TN + 50 dB.

II. proposal

An interference problem has been identified created by the dissimilar rules proposed for

the H Block and the existing spectrum etiquette rules for the UPCS band. The result is that

potentially the out-of-band emission limits proposed for the H Block could severely limit the use

of the UPCS band. The DECT Forum proposes that the threshold requirement associated with

the least-interfered-channel rule in 47CFR15.323(c)(5) be eliminated and that the minimum

number of channels to be monitored be reduced to 30.

These changes would amend 47CFR15.323(c)(5) from:

If access to spectrum is not available as determined by the above, and a

minimum of 40 duplex system access channels are defined for the system,

the time and spectrum windows with the lowest power level below a

monitoring threshold of 50 dB above the thermal noise power determined

for the emission bandwidth may be accessed.

To:



If access to spectrum is not available as determined by the above, and a minimum of 30 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level may be accessed.

If eliminating the threshold is not acceptable, a secondary solution is that proposed in the ANSI petition, to increase the threshold from 50 dB above thermal noise to 65 dB above thermal noise.

In addition DECT Forum proposes that the proposed out-of-band emissions for H-band devices operating in the 1915-1920 MHz band be reduced by 3-6 dB. For example, require that out-of-band emissions must be attenuated below the transmitter power (P) by at least 49 + 10 log (P), where P is the transmit power. This will decrease the potential range limitations of UPCS devices.

Respectfully submitted,

Aastra-DeTeWe

Jörg Tielmann Head of R&D

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Geschäftsführer: Andreas Latzel, Anthony Shen Steuernummer: 29/230/00532